Doassansia ranunculina, n. sp.—Spots light brown, 2–4^{mm} in diameter, papillate. Sori aggregated or scattered, usually spherical, 100–200μ in diameter, developing in either the parenchyma or the palisade layer of the leaf or in any position in the petiole between the epidermis and the fibro-vascular bundles. Spores crowded, filling the sorus, spherical or polygonal, 6–10μ in diameter. Cortex of one layer of cells which are more or less quadrangular in section, 10–15×8–12μ. Spores germinating in position. Promycelium 3–4μ in diameter, vacuolate. Primary sporidia 6–8 in a whorl on the end of the promycelium, fusiform, vacuolate, 12–20×2–2.5μ. Conjugation by means of a large apical tube both in position and after becoming free. A filament 60–90μ long is then formed from which the secondary sporidia are abstricted in basipetal succession. Secondary sporidia 12–15×2.5–3μ. In material which had germinated and produced the filaments in the field the secondary sporidia conjugated by means of connecting tubes. In many of the specimens collected germination had occurred and the filaments protruded through the cleft cortex and epidermis.

In the leaves and occasionally the petioles of *Ranunculus multifidus* Pursh, in swampy places which had become dry during the summer. Racine, Wisconsin.

Material has been prepared for the distribution of these species in Ellis and Everhart's North American Fungi.—J. J. DAVIS, *Racine, Wisconsin.*

Ruled slides.—For several years I have made much use of ruled slides with a stage microscope. It is so easy thus to measure any thing you dissect, that I wonder they are not in more general use. Those I use are ruled in squares, 10^{mm} each way, in the middle of a slide which ought to be three inches long, and wider than the ordinary slide to prevent getting mixed up with them. The ruling ought to be deep enough so that water will not temporarily make it impossible or very difficult to see the lines. Good ruled slides for the use above named ought to be in the market at moderate prices.—W. J. BEAL, *Agricultural College, Mich.*